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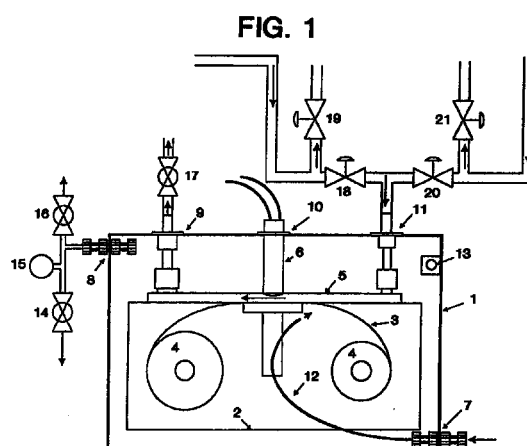
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(54) **Detection of hydrogen sulfide in hydride gases**

(57) The method measures hydrogen sulfide concentrations in hydride gases in a sealed vessel (1). The sealed vessel has a gas inlet (11) to receive a stream of hydride gas, a gas outlet (9) to remove the stream of hydride gas and a metal acetate substrate (3). The stream of hydride gas contains a concentration of hydrogen sulfide gas. Introducing the stream of hydride gas through the gas inlet contacts the acetate substrate with the stream of hydride gas. Reacting the hydrogen sulfide gas contained in the stream of hydride gas with the acetate substrate modifies optical properties of the acetate substrate. Then measuring the optical properties of the acetate substrate determines the concentration of the hydrogen sulfide gas contained in the stream of hydride gas.



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# EUROPEAN SEARCH REPORT

Application Number  
EP 00 10 6265

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
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Y,D	US 2 800 397 A (OFFUTT E B, ET AL) 23 July 1957 (1957-07-23) * column 1, line 60 - column 2, line 19 * * column 3, line 8 - line 13 * * column 3, line 37 - line 46 * * column 4, line 22 - line 27 *	1,3,5-10	
Y,D	US 4 127 780 A (KIMBELL CHARLES L) 28 November 1978 (1978-11-28) * column 1, line 12 - line 17 * * column 2, line 13 - line 18 * * column 4, line 27 - line 31 * * column 6, line 49 - column 7, line 17 *	4	TECHNICAL FIELDS SEARCHED (Int.Cl.7) G01N
The present search report has been drawn up for all claims			
Place of search BERLIN		Date of completion of the search 26 February 2001	Examiner Navas Montero, E
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons ..... & : member of the same patent family, corresponding document	

EPO FORM 1503 03/82 (P04C01)



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Application Number  
EP 00 10 6265

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
A,D	<p>"HYDROGEN SULFIDE IN THE ATMOSPHERE BY RATE OF CHANGE OF REFLECTANCE"</p> <p>ANNUAL BOOK OF ASTM STANDARDS, PHILADELPHIA, PA, US, no. 11-03, 1984, pages 441-446, XP000910333</p> <p>ISSN: 0192-2998</p> <p>* page 442, right-hand column, paragraph 6.3 *</p> <p>* page 443, left-hand column, paragraph 8.2 *</p> <p>* page 444, left-hand column - right-hand column, paragraph 11.1.4 *</p> <p>-----</p>	1,2	
			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
The present search report has been drawn up for all claims			
Place of search		Date of completion of the search	Examiner
BERLIN		26 February 2001	Navas Montero, E
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone</p> <p>Y : particularly relevant if combined with another document of the same category</p> <p>A : technological background</p> <p>O : non-written disclosure</p> <p>P : intermediate document</p> <p>T : theory or principle underlying the invention</p> <p>E : earlier patent document, but published on, or after the filing date</p> <p>D : document cited in the application</p> <p>L : document cited for other reasons</p> <p>&amp; : member of the same patent family, corresponding document</p>			

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**ANNEX TO THE EUROPEAN SEARCH REPORT  
ON EUROPEAN PATENT APPLICATION NO.**

EP 00 10 6265

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.  
The members are as contained in the European Patent Office EDP file on  
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26-02-2001

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